

Geometry 2.1 Assignment: Conditional Statements (pp 71-78)

1. What is your name?

Rewrite the conditional statement in if-then form.

2. Bert goes shopping for groceries only on Wednesday.

3. The number 2 is a factor of every even number.

Decide whether the statement is *true* or *false*. If false, provide a counterexample.

4. _____ If you visited the Jefferson Monument, then you've been to Washington, D.C.

5. _____ Two collinear rays intersect.

**Write the converse, inverse, and contrapositive of each statement.
Identify each statement as *true* or *false*.**

6. If $x + 1$ is even, then x is odd.

7. If $m\angle P = 109^\circ$, then $\angle P$ is obtuse.

Draw a sketch to illustrate each postulate.

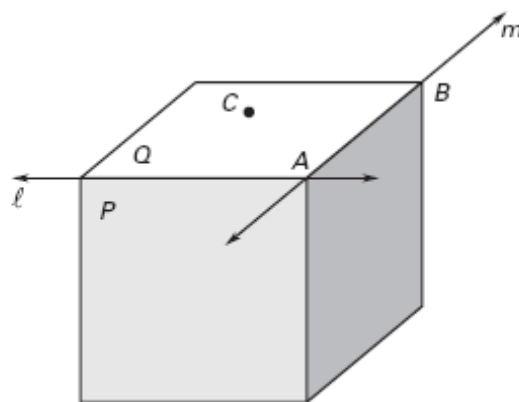
8. A line contains at least two points.

9. Through any three non-collinear points there exists exactly one plane.

Use the diagram to state the postulate(s) that verifies the truth of the statement in questions 10 and 11.

10. The planes P and Q intersect in a line (labeled ℓ).

11. The points A and B lie on a line (labeled m).



12. _____ Which one of the following statements is *not* true?

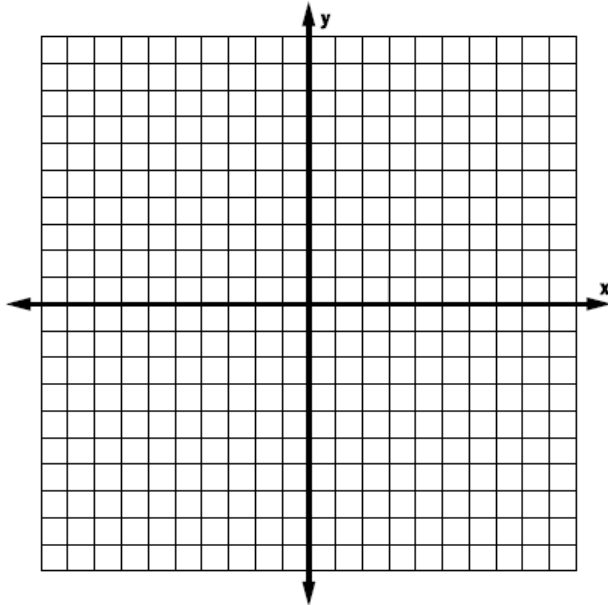
- A. If $x = 2$, then $x^2 = 4$.
- B. If $x = -2$, then $x^2 = 4$.
- C. If $x^3 = -8$, then $x = -2$.
- D. If $x^2 = 4$, then $x = 2$.
- E. If $x = -2$, then $x^3 = -8$.



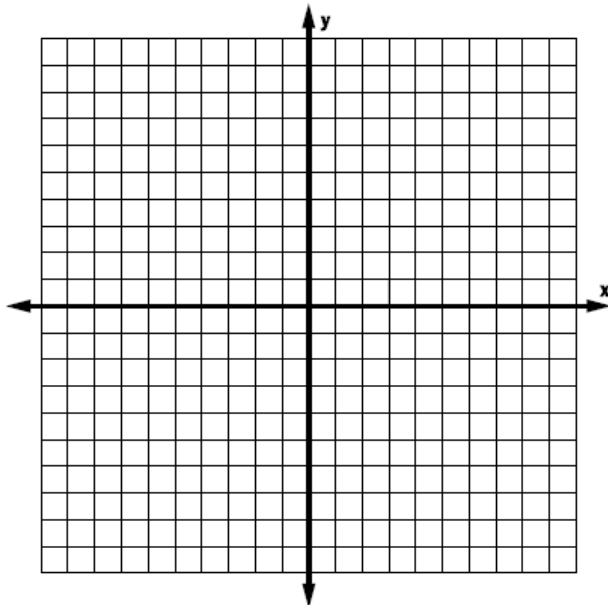
Review.

Plot the points in a coordinate plane. Then classify $\angle ABC$. (Chapter 1 Section 4)

13. $A(-1, 0)$, $B(6, -4)$, $C(-6, -1)$



14. $A(-3, -1)$, $B(2, 5)$, $C(3, -2)$



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2.1 Assignment: Conditional Statements

Find the coordinates of the midpoint of the segment joining the two points. (Chapter 1 Section 5)

15. $A(0, -9)$ & $B(-8, 5)$

16. $A(-10, -10)$ & $B(2, 12)$

Find the area and perimeter (or circumference) of the figure described. (Chapter 1 Section 7)

12. Square, side = 11 cm

13. circle, diameter = 23 ft



"Behind this door are the brains setting the outer boundaries of mathematical thought, riding the cutting edge of numbers theory and ...